1   Abstract

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3   Systems and methods for generating visual
4   representations of graphical data and digital
5   document processing, including:

6   A method of redrawing a visual display of
7   graphical data whereby a current display is replaced
8   by an updated display, comprising, in response to a
9   redraw request, immediately replacing the current
10   display with a first approximate representation of
11   the updated display, generating a final updated
12   display, and replacing the approximate
13   representation with the final updated display.

14   A method of generating variable visual
15   representations of graphical data, comprising
16   dividing said graphical data into a plurality of
17   bitmap tiles of fixed, predetermined size, storing
18   said tiles in an indexed array and assembling a
19   required visual representation of said graphical
20   data from a selected set of said tiles.

21   A method of processing a digital document, said
22   document comprising a plurality of graphical objects
23   arranged on at least one page, comprising dividing
24   said document into a plurality of zones and, for
25   each zone, generating a list of objects contained
26   within and overlapping said zone.

27   Digital document processing systems adapted to
28   implement the methods.